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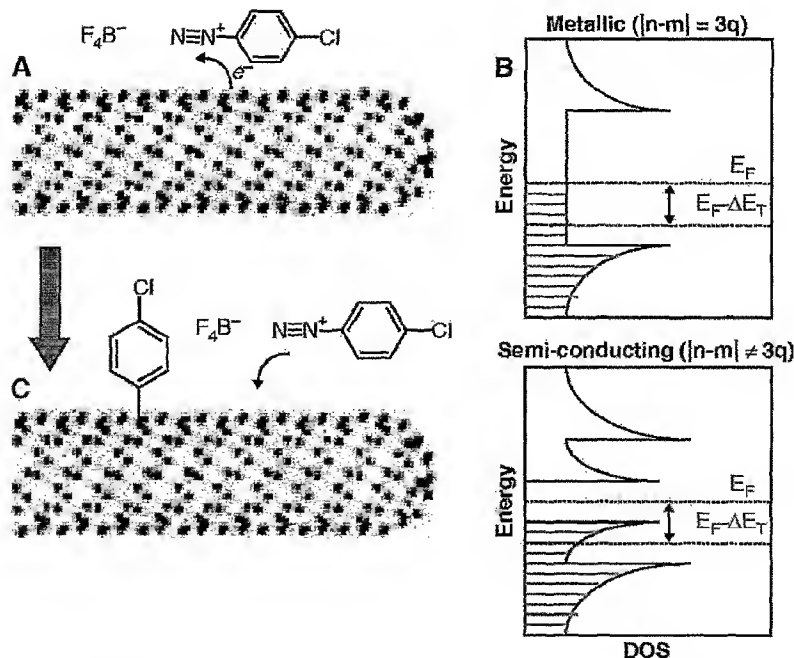
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(54) Title: SELECTIVE FUNCTIONALIZATION OF CARBON NANOTUBES



(57) Abstract: The present invention is directed toward methods of selectively functionalizing carbon nanotubes of a specific type or range of types, based on their electronic properties, using diazonium chemistry. The present invention is also directed toward methods of separating carbon nanotubes into populations of specific types or range(s) of types via selective functionalization and electrophoresis, and also to the novel compositions generated by such separations.



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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/060812 A (WILLIAM MARSH RICE UNIVERSITY; TOUR, JAMES, M; BAHR, JEFFREY, L; YANG,) 8 August 2002 (2002-08-08) cited in the application	1,2,4-12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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## INTERNATIONAL SEARCH REPORT

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	SUN ET AL: "Functionalized carbon nanotubes: properties and applications" ACCOUNTS OF CHEMICAL RESEARCH, ACS, WASHINGTON, DC, US, vol. 35, 23 November 2002 (2002-11-23), pages 1096-1104, XP002327964 ISSN: 0001-4842 the whole document -----	1-24
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